E. RICHTER.

COIN ACTUATED MECHANISM.

APPLICATION FILED AUG. 13, 1912.

1,078,381.

Patented Nov. 11, 1913.

2 SHEETS—SHEET 1.

Fig. 5

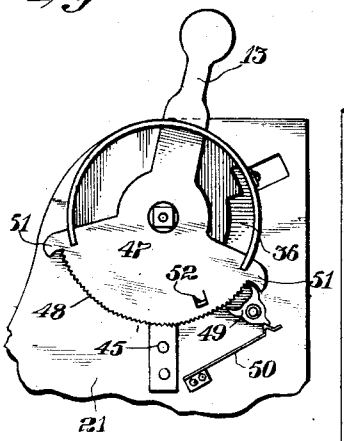


Fig. 1.

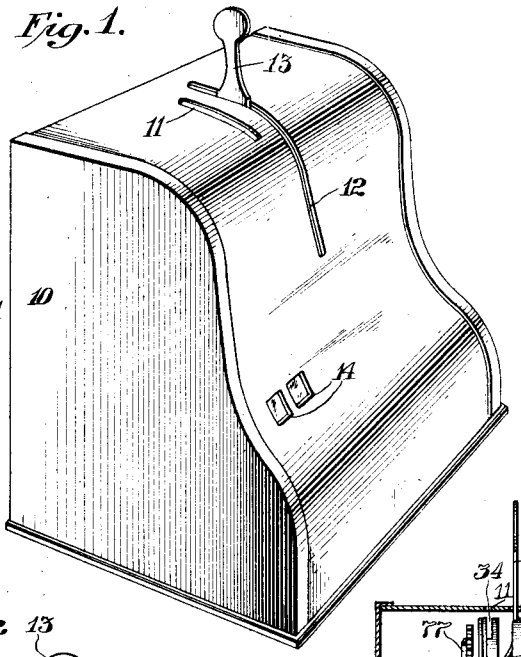


Fig. 4.

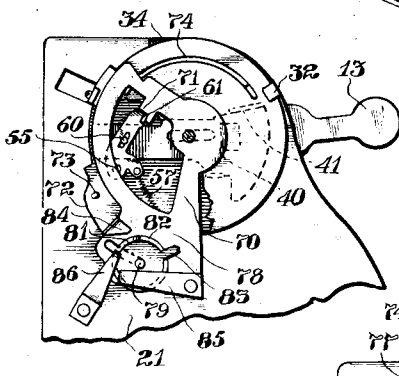


Fig. 2.

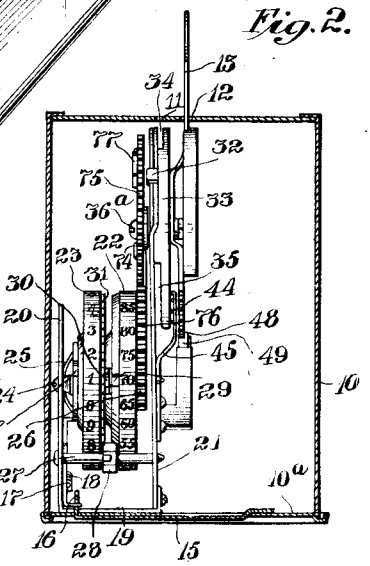
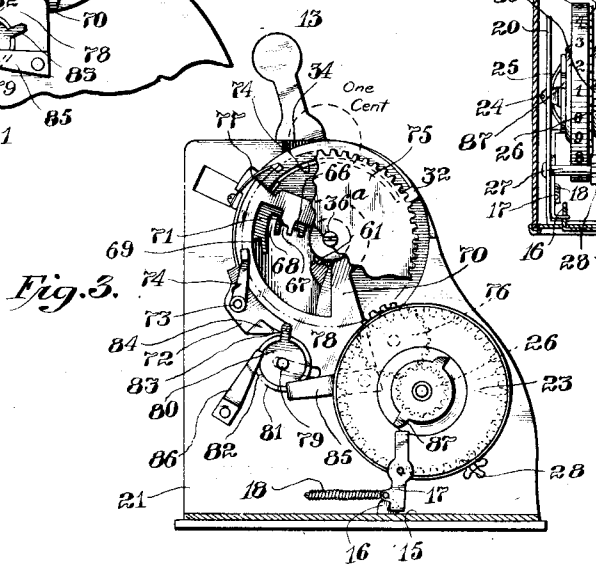


Fig. 3.



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3 SHEETS—SHEET 2.

Fig. 6.

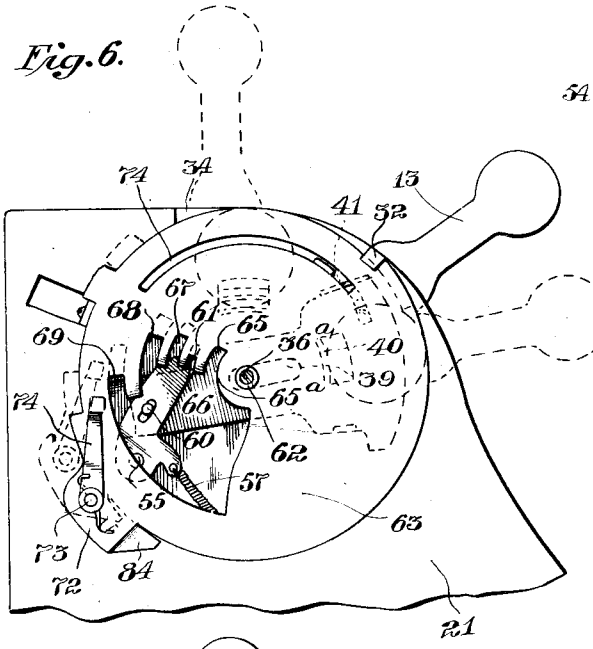


Fig. 7.

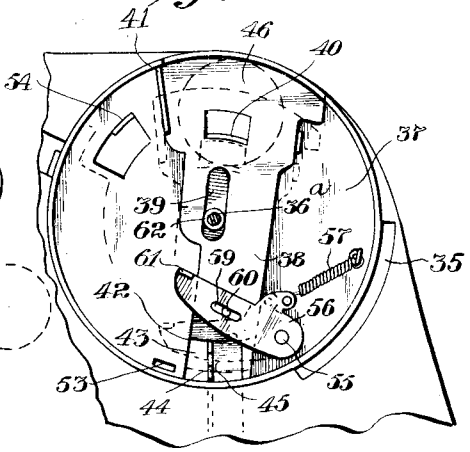


Fig. 9.

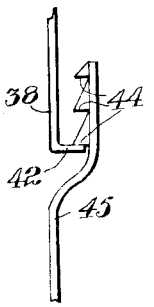
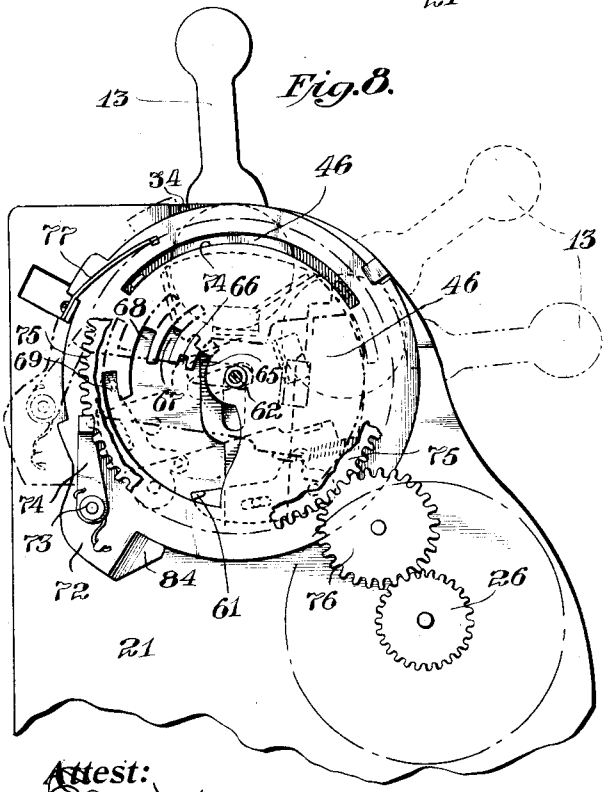


Fig. 8.



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UNITED STATES PATENT OFFICE.

EMANUEL RICHTER, OF CHICAGO, ILLINOIS.

COIN-ACTUATED MECHANISM.

1,078,381. Specification of Letters Patent. Patented Nov. 11, 1913.

Application filed August 13, 1912. Serial No. 714,769.

To all whom it may concern:

Be it known that I, EMANUEL RICHTER, a citizen of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Coin-Actuated Mechanism, of which the following is a specification.

My invention relates to improvements in coin actuated mechanism adapted to receive coins of different denominations, and the invention refers, more specifically, to a type of such mechanism wherein a differentially operative device, such as a coin register adapted for use in registering banks, is actuated to an extent corresponding to the denomination, or more accurately speaking to the dimensions, of any particular coin inserted.

One object of the invention is to provide a simply constructed coin actuated mechanism by means of which coins of different denominations may be successively inserted, through the same coin opening, to actuate a differentially operative mechanism, such as a coin register, to an extent corresponding with the denominations of the coins, respectively, inserted.

Another object of the invention is to so construct the device that coins of different denominations may be inserted in any order or succession, and the differentially operative device will be actuated once to the proper extent or degree for each such coin, except that for coins of a predetermined value, for example one cent pieces, the differentially operative device will not be actuated after each such coin is inserted, but will only be actuated once after a given number of such coins, for example to the value of the coin next higher in value, say a five cent piece, have been inserted.

A further object of the invention is to so combine and coördinate the several parts of the device as to insure efficiency of operation combined with compactness and sightliness of appearance.

Other objects and advantages of the invention, its detail structure and operation, will be clearly disclosed in the following specification, reference being made to the accompanying drawings, wherein—

Figure 1, is a perspective view of a registering savings bank, embodying my invention; Fig. 2, is a front elevational view, the cover or casing of the device appearing in section; Fig. 3, is a side elevational view, looking toward the left hand side of Fig. 2, the casing and the left hand side standard or arm being omitted; Fig. 4, is a fragmentary detail elevational view of certain of the parts shown in Fig. 3, but in a different position from that shown in the latter figure; Fig. 5, is a fragmentary side elevational view of the device shown in Fig. 2, looking toward the right hand side of Fig. 2; Fig. 6, is a detail side elevational view of the mechanism for actuating the differentially operative device or coin register; Fig. 7, is a similar view of the coin carrier and appurtenant parts; Fig. 8, is a fragmentary side elevational view of the upper part of the device looking toward the left hand side of Fig. 2, parts of the large gear wheel for imparting rotary motion to the coin register being broken away; and Fig. 9, is a fragmentary detail view of means for temporarily retaining the coin carrier in depressed position.

Referring to the drawings, 10 denotes the cover or casing of my improved coin actuated mechanism, which in the present case has been shown as being embodied in a registering savings bank. Formed in the upper part of the cover 10 is the coin admission slot 11, through which coins of various denominations may be successively inserted. The structure here illustrated is adapted to receive one cent pieces; five cent pieces or "nickels"; ten cent pieces or "dimes"; and twenty five cent pieces or "quarters". Adjacent the slot 11 in the casing is an elongated slot 12, through which the handle 13 of an operating lever, more fully hereinafter described, projects and in which it may be moved back and forth. The front of the casing is provided with openings or windows 14, through which the indicating ordinals on the register are visible. The base 10^a of the casing 10 is provided with a pivoted door 15 having an upwardly projecting catch or arm 16 designed to be engaged by a pivoted latch 17 under the tension of a spring 18. As will be more fully hereinafter described, the latch 17 is tripped when the bank contains coins of a predetermined aggregate value, whereby the door 15 is released and the contents of the bank are made accessible.

Secured to the base of the casing, which is removably connected to the casing proper, is a substantially U-shaped supporting

frame comprising the base portion 19 and the lateral arms 20 and 21, the former being preferably shorter than the latter. The arms 20 and 21 serve to support the differentially operative device which includes the register wheels 22 and 23, loose on the stud shaft 24, which has its opposite ends bearing in said arms. A spring spider 25, centered on the shaft 24, tends to force the wheel 23 toward the wheel 22. The wheel 22 is the units wheel, while the wheel 23 is the tens wheel. In the device shown registration up to ten dollars is provided for, and for each complete revolution of the wheel 22 about the shaft 24, the wheel 23 is moved one step, or the distance represented by the space between one ordinal and the next higher ordinal on the wheel 23. Secured to one side of the wheel 22 and concentric with the shaft 24 is a pinion 26 through the medium of which this wheel is positively rotated, by means to be described. In order to move the wheel 23 one step at the completion of each revolution of the wheel 22 I provide the following instrumentalities:— Bearing in the arms 20 and 21 closely adjacent the peripheries of the wheels 22 and 23 near their lower part, is a stud shaft 27, having fixed thereon intermediate its ends a pinion 28 projecting into the space between the inner faces of the wheels 22 and 23. The periphery of the wheel 22, adjacent the ordinals thereon, is smooth and at a point opposite the number 70 is slotted as at 29 to clear the pinion 28, and fixed to the wheel 22 immediately adjacent the slot 29 is a forked stud 30 which is adapted to rotate the pinion 28. The inner face of the wheel 23 is toothed at 31, these teeth meshing with the pinion 28. When the wheel has been revolved, as the result of the insertion of coins, a sufficient extent to have "95" visible through the right hand window 14, the forked stud 30 will just take over one of the teeth of the pinion 28. Upon the next movement of the wheel 22 the pinion will be rotated, thereby rotating the wheel 23 one step and causing it to show the number next higher than the preceding one, through the left hand window 14.

Supported by clips 32 at one side of the lateral arm 21 and near the top thereof, is an annular casing 33, peripherally slotted at 34 for the insertion of coins, and again at 35 for the ejection of coins into the interior of the casing 10. One lateral wall of the annular casing is formed by the arm 21 and its other wall (lateral) is provided with an irregularly shaped recess or opening 36 (Fig. 5), for a purpose to be described.

Passing approximately centrally through the annular casing, and through the arm 21, is a stud shaft 36^a which serves to pivotally support a cup shaped member 37 (Fig. 7), concentric with, and revoluble within, the annular casing 33. Arranged between the inner wall of the cup 37 and the inner surface of the arm 21 is a depressible coin carrier 38, provided approximately centrally with an elongated slot 39 taking over the stud shaft 36^a. Near its upper end the coin carrier is provided with a coin supporting shelf or lug 40, and its rear edge 41 is turned at substantially a right angle to the plane of the carrier to prevent rearward escape of inserted coins. The lower curved edge 42 of the carrier 38 is turned at a right angle to the plane of the carrier and in a direction opposite to the edge 41, to form a sort of dog which projects through a slot 43 in the cup, said dog being adapted for releasable engagement with the teeth 44 of a spring 45 which is secured to the arm 21 (Fig. 9). The teeth are arranged in a vertical row projecting through the slot 36 and serve to temporarily retain the coin carrier depressed to a degree corresponding to the peripheral dimension of the coin 46 placed on the shelf 40.

Rigidly mounted on the stud shaft 36^a is an operating lever 47, the operating handle of which projects through the slot 12 and has heretofore been designated 13. This operating lever has its lower edge formed as a toothed segment 48, (Fig. 5), which is designed to be engaged, in its back and forth travel, by a two-armed pivoted pawl 49, held against the teeth 48 by the spring 50 secured to the outer face of the arm 21. The segment 48 is provided with a projection 51 at each end thereof, these projections serving to cant the pawl 49 into the proper position as the lever 47 reaches the end of its rotary travel in either direction. The action of the pawl is such that the lever 47 must be moved completely to the end of its path in either direction, before its movement may be reversed. Struck up from the body of the lever 47 near its edge 48 is a lug 52, which engages and fits into a recess 53 in the cup 37, whereby the latter is positively moved with the lever 47. The cup 37 is also provided with a struck up lug or spur 54, so arranged to the rear of the edge 41 of the coin carrier, that as the cup 37 is rotated by the operating lever, the spur 54 engages and pushes against the edge 41 causing the carrier 38 to participate in the rotary movement of the cup 37 about its pivot 36^a.

Pivotally mounted at 55 on the inner face of the cup 37 is a dog 56 under control of a retractile spring 57 having a normal tendency to draw the dog upwardly. This dog is provided with an elongated slot 59 taking over a pin 60 projecting outwardly from the carrier 38. At its forward end the dog is formed with a toe 61 serving to actuate selective mechanism, more fully hereinafter

described, which causes operation of the differentially operative device or register above referred to.

Loosely mounted for revolution with a sleeve 62, which embraces the stud 36ª, is a disk 63 provided near its edge with the segmental, curved, slot 64 through which the lug or spur 54 projects, and against the ends of which slot the lug is adapted to abut. This disk is cut out to provide the selective slots 65 to 69, any one of which the toe 61 is adapted to engage, dependent upon the size of the coin inserted. When the lever 47 is operated without the insertion of a coin, toe 61 enters slot 65 and there is no actuating movement; when a dime is inserted toe 61 enters slot 66; when one cent is inserted toe 61 enters slot 67; when a nickel is inserted toe 61 enters slot 68, and when a quarter is inserted the toe enters slot 69. Carried likewise by the sleeve 62, for revolution about the stud 36ª, is a second selective disk 70 immediately adjacent disk 63 and which disk 70 is operated only when coins of a predetermined denomination, such as one cent pieces, are inserted in the mechanism. The disk 70 is mutilated to provide the engaging surface 71, and the toe 61 is sufficiently long to project beyond the edge of the disk 63 through slot 67 and abut against the surface 71.

The disk 63 is provided with an extension or prolongation 72 at its periphery, and on this extension is pivotally mounted at 73 a pawl 74 spring pressed into engagement with the teeth of a gear wheel 75 fixed to the stud 36ª and by means of the idler 76 designed to rotate the pinion 26 fixed to the wheel 22, to an extent corresponding to the coin inserted. A spring dog or pawl 77 is provided to prevent accidental reverse rotation of the large gear wheel 75.

The disk 70 is provided with a prolongation or extension 78, upon which is pivotally mounted at 79, a wheel or disk 80 having an upturned edge 81 provided with four undercut grooves 82 inclined toward the differentially operative device. The wheel 80 is also provided with a finger 83 projecting from the periphery of said wheel, said finger being designed to pass under and act against the beveled edge 84 of the extension 72, causing the dog 74 to turn the gear wheel 75 to the extent of one tooth. Secured to the extension 78 of the disk 70 is a spring arm 85 which serves to raise the wheel 80, at each movement of the disk 70, the distance between two grooves 82 and upon each such advance a second spring arm or pawl 86 secured to the arm 21 engages in one of the under cut grooves 82 and holds the wheel in advanced position when the disk 70 returns to initial position. It will be obvious from the construction just described that the wheel 80 must be moved five times, representing the insertion of five one cent pieces, before the finger 83 will be moved into operative position under the beveled edge 84 and cause actuation of the gear wheel 75.

In the foregoing description of the construction of my device I have indicated, in a more or less general manner, the operation of certain elements and combination of elements which form parts of the invention, and in order to make the operation of the whole mechanism entirely clear, I will now give a detail description thereof, it being understood that the function of the device is to receive coins of various denominations, viz:—one cent pieces; five cent pieces or nickels; ten cent pieces or dimes; twenty-five cent pieces or quarters; to register, after the insertion of each of the three larger denomination coins referred to, the total amount contained in the device, but as to one cent pieces, to register only after the fifth one cent piece has been inserted, irrespective of the order or sequence in which coins of the various denominations are inserted.

Let it be assumed that the bank is empty, and the several parts occupy the positions indicated in Figs. 1 and 2. Assume further that a dime is inserted in the slot 11 and pressed down until the periphery of the coin is just about flush with the upper edges of the slot 11. By the insertion of the coin, pressure is applied against the shelf 40, the carrier 38 is depressed and the curved pawl edge 42 thereof engages in one of the teeth 44 of the spring 45. By the depression of the carrier, the dog 56 has been moved about its pivot 55, against the tension of the spring 57 and the toe 61 properly positioned to enter the slot 66 in the selective disk 63. The operating lever 47 is now moved to the right (direction of Fig. 3), and in this movement the lever and the coin occupy the several positions, respectively, shown in dotted lines in Fig. 8. Owing to the rigid connection 52—53 between the lever 47 and the cup 37, the latter together with the coin carrier 38 and pivoted dog 56 will be rotated about the stud 36ª as a center, when the lever is moved as suggested. Shortly after the several parts start their rotary motion the pawl edge 42 releases engagement with the teeth 45, but the carrier 38 is prevented from being drawn back to initial position, by the inserted coin which retains its position between the intact part of the periphery of the casing 33 and the shelf 40 on the carrier. By the continued movement of the lever 47 the toe is caused to enter the slot 66 thereby moving the disk 63 about the stud 36ª a sufficient extent to cause the pawl 74 to move the gear wheel two teeth, trans-

mitting a corresponding amount of motion through the idler 76 to the pinion 26. In this movement the wheel 22 is moved to show the numeral "10" in the right hand window 14. When the toe 61 has acted against the slot 66 in the manner described, the coin 46 has just reached the slot 35 and falls out therethrough into the bank casing, thus permitting the carrier 38 to reassume its initial vertical position. As the lever 47 reaches its extreme forward movement one of the projections 51 strikes, and cants, the two armed pawl 49 and the lever may then be moved back to initial position for another operation. In its return movement, which is effected by hand, the spur 54 strikes the left hand end of the curved slot 74 and returns the disk 63 and appurtenant parts to initial position. It will be understood that the carrier is positively moved by the cup 37, owing to the fact that the lower edge 42 of the carrier projects through a slot in the cup. When nickels and quarters are inserted the action is similar to that above described in connection with a dime, the differences being in the extent of depression of the coin carrier, the different slots acted against by the toe 61 and the different extent to which the wheel 75 is moved, it being understood that the latter is moved a distance of one tooth for each five cent value inserted.

When a one cent piece is inserted, the operation of the lever 47, coin carrier 38, dog 56 and toe 61, as well as of the cup 37 is the same as above described in connection with the inserted dime. However, when a cent is inserted the toe 61 hits against the surface of the disk 70, rocking the latter about the stud 36[a] as a pivot. This rocking movement causes the spring arm 85 to raise the wheel 80 a distance equal to the space between two adjacent grooves 82, and after each such advance the spring arm 86 engages a groove 82, and as the disk 70 is moved back to initial position by the spur 54 acting against its upper edge, the wheel 80 is held in its advanced position by said arm 86. No registering movement is effected, however, until the fifth cent has been inserted, and then the projecting finger 83 acts against the beveled edge 84 of the disk 63, thereby causing the pawl 74 to move the gear wheel 75 one step, which motion is transmitted through the gear train 76—26 to the units wheel 22. Upon insertion of a coin (other than a one cent piece, unless it be the fifth) into the mechanism when the units wheel indicates "95," and suitable operation of the mechanism, the forked stud 30 revolves the pinion 28, moving the wheel 23 one step and causing it to show through the left hand window 14 the number next after the one which was precedingly visible.

On the left hand side (Fig. 3) of the dollar wheel 23 is a pair of oppositely projecting pins 87 which are adapted to strike the latch 17 and release the same from the catch 16. The bank is gaged to receive ten dollars as its maximum contents at one time, and as the wheel 23 has two series of numerals from 0 to 9 two pins 87 are provided, as shown.

Having now described my invention what I claim as new and desire to secure by Letters Patent is:—

1. A device of the character described, embodying therein a slidably mounted coin carrier adapted to receive coins of different denominations and depressible to an extent corresponding to the denomination of a coin delivered thereto, means for temporarily retaining said coin carrier in the position to which it may be depressed by a coin delivered thereto, differentially operative mechanism operable to an extent dependent upon the denomination of a coin delivered to said coin carrier, selective mechanism adapted to assist in the actuation of said differentially operative mechanism, and means for rotating said coin carrier to move the same into operative relation with said selective mechanism, whereby said coin carrier is released from said retaining means and in its movement from the latter to the selective mechanism the coin serves to retain the carrier in depressed position.

2. A device of the character described embodying therein a slidably mounted coin carrier adapted to receive coins of different denominations and depressible to an extent corresponding to the denomination of a coin delivered thereto, means for temporarily retaining said coin carrier in the position to which it may be depressed by a coin delivered thereto, differentially operative mechanism operable to an extent dependent upon the denomination of a coin delivered to said coin carrier, selective mechanism adapted to assist in the actuation of said differentially operative mechanism, means depressible with said coin carrier for operatively engaging said selective mechanism, and means for rotating said coin carrier to move the engaging means depressible therewith into engagement with said selective mechanism, whereby said coin carrier is released from said retaining means and in the movement of the coin carrier away from said retaining means said coin serves to retain the carrier and said engaging means in depressed position.

3. A device of the character described, embodying therein differentially operative mechanism, a depressible rotatably mounted coin carrier, means whereby an inserted coin coöperates in retaining said carrier depressed during part of its rotary travel, selective mechanism embodying a loosely pivoted disk

having graduated slots therein corresponding to the several coins adapted to be delivered to the coin carrier, means governed by said selective mechanism for actuating said differentially operative mechanism to an extent dependent upon the denomination of the coin delivered to said carrier.

4. A device of the character described, embodying therein differentially operative mechanism, a depressible rotatably mounted coin carrier adapted to receive coins of different denominations, means whereby an inserted coin coöperates in retaining said carrier depressed during part of its rotary travel, a pivoted dog movable with said depressible coin carrier, selective mechanism adapted to be engaged by said dog at a point dependent upon the denomination of the coin delivered to said coin carrier, said selective mechanism comprising a loosely pivoted disk having graduated slots therein and means for actuating said differentially operative mechanism to an extent dependent upon the point at which said dog engages said selective mechanism.

5. A device of the character described, embodying therein differentially operative mechanism, a depressible coin carrier, a pivoted dog movable with and slidable on said coin carrier and provided with a projecting toe, selective mechanism comprising a disk having slots adapted to be engaged by said toe, and means for operating said differentially operative mechanism to an extent governed by the position of the slot engaged by said toe.

6. A device of the character described, embodying therein differentially operative mechanism, a coin carrier adapted to receive coins of different denominations and depressible to an extent dependent upon the denomination of the coin delivered thereto, a pivoted dog depressible with and slidable on said coin carrier and having a projecting toe, selective mechanism comprising a disk having a series of slots adapted to be engaged by the toe, means for rotating said carrier to move said toe into the slot determined by the denomination of the coin delivered to the carrier, and means for actuating said differentially operative mechanism to an extent dependent upon the position of the slot engaged by said toe.

7. A device of the character described, embodying therein differentially operative mechanism, a depressible rotatably mounted coin carrier adapted to receive coins of different denominations, means whereby an inserted coin coöperates in retaining said carrier depressed during part of its rotary travel, selective mechanism adapted to be actuated to an extent dependent upon the denomination of the coin delivered to said coin carrier, said selective mechanism comprising a loosely pivoted disk having graduated slots therein, means for actuating said differentially operative mechanism, and means carried by said selective mechanism for operating the means adapted to actuate said differentially operative mechanism.

8. A device of the character described, embodying therein differentially operative mechanism, a coin carrier adapted to have coins of different denominations delivered thereto and depressible to an extent dependent upon the denomination of the coin delivered thereto, selective mechanism comprising a rotary disk having slots therein corresponding in size and position to the denomination of the several coins adapted to be delivered to said coin carrier, means carried by said coin carrier and adapted to enter the slots in said disk, means for rotating said coin carrier to move the means carried thereby into the slot in said disk determined by the denomination of the coin delivered to the carrier, means whereby an inserted coin coöperates in retaining said carrier depressed during part of its rotary travel and means operable from said disk to actuate said differentially operative mechanism to an extent dependent upon the denomination of the coin delivered to said carrier.

9. A device of the character described, embodying therein differentially operative mechanism, a depressible coin carrier adapted to receive coins of different denominations, means for temporarily retaining said coin carrier after the same has been depressed by the delivery of a coin thereto, means for rotating said coin carrier to operate said differentially operative mechanism upon the insertion of each coin of certain denomination, whereby said coin carrier is released from said retaining means, means whereby said coin acts to retain the coin carrier in depressed position after its release from the retaining means and during part of its rotation, and independent means operable to actuate said differentially operative mechanism after the insertion of a given number only of coins of a predetermined denomination.

10. A device of the character described, embodying therein differentially operative mechanism, a depressible coin carrier adapted to receive coins of different denominations, means for actuating said differentially operative mechanism to an extent dependent upon the denomination of the coin delivered to said coin carrier, selective mechanism whereby the extent of operation of said operating means is controlled for coins of certain denominations only, said selective mechanism comprising a loosely pivoted disk having a series of graduated slots therein, and additional selective mechanism whereby said operating mechanism operates only after a given number of coins of a predeter-

mined denomination have been delivered to said coin carrier.

11. A device of the character described, embodying therein differentially operative mechanism, a coin carrier adapted to receive coins of different denominations and depressible to an extent dependent upon the denomination of the coin delivered thereto, operating means for said differentially operative mechanism, selective mechanism adapted to cause operation of said operating means for each coin of a certain denomination delivered to said coin carrier, and additional selective mechanism adapted to cause operation of said operating means only after a given number of coins of a predetermined denomination have been delivered to said coin carrier, said selective mechanism comprising a loosely pivoted disk having a series of graduated slots therein.

12. A device of the character described, embodying therein differentially operative mechanism, a coin carrier adapted to receive coins of different denominations and depressible to an extent dependent upon the denomination of the coin delivered thereto, operating means for said differentially operative mechanism, selective means adapted to be actuated through the agency of said coin carrier, said selective mechanism comprising a loosely pivoted disk having a series of graduated slots therein, means carried by said selective means for actuating said operating means each time a coin of a certain denomination is delivered to said coin carrier, additional selective mechanism actuated only when a coin of a predetermined denomination is delivered to said coin carrier, and means carried by said second named selective mechanism for actuating said operating means only after a given number of coins of said predetermined denomination have been delivered to said coin carrier.

13. A device of the character described, embodying therein differentially operative mechanism, a depressible coin carrier adapted to receive coins of different denominations, a casing surrounding said coin carrier and having a coin admission slot and a coin emission slot, a pivoted dog movable with and slidable on said coin carrier, selective mechanism comprising a loosely mounted disk having a plurality of slots adapted to be selectively engaged by said dog, means for rotating said carrier and said dog whereby the latter is moved into one of said slots upon the delivery of a coin to said carrier, and means for operating said differentially operative mechanism to an extent governed by the position of the slot which said dog enters.

14. A device of the character described, embodying therein a supporting frame including a pair of lateral arms, a cup-shaped member pivotally carried by one of said arms, a coin carrier depressible in said cup by the delivery of a coin thereto, means for temporarily retaining said coin carrier in depressed position, means for rotating said cup and said carrier whereby the latter is released from said retaining means, means whereby the coin delivered to the carrier acts to retain the same in depressed position after its release from the retaining means and during a part of its rotation and means for operating said differentially operative mechanism to an extent dependent upon the denomination of the coin delivered to said carrier.

15. A device of the character described, embodying therein a supporting frame including a pair of lateral arms, a cup revolubly mounted in one of said arms, a depressible coin carrier reciprocal in and revoluble with said cup, said coin carrier being adapted to receive coins of different denominations, a dog movable with said coin carrier, said dog having a projecting toe, selective mechanism comprising a disk having a plurality of slots adapted to be selectively engaged by said toe, means for rotating said cup and said carrier whereby said toe is moved into one of said slots, operating means for said differentially operative mechanism, and means carried by said selective mechanism for actuating said operating means to an extent dependent upon the denomination of the coin delivered to said coin carrier.

16. In a device of the character described, the combination with differentially operative mechanism, of operating means therefor, a depressible coin carrier adapted to have coins of different denominations delivered thereto, an operating lever for rotating said coin carrier, selective mechanism adapted to be actuated by the rotation of said coin carrier, said selective mechanism comprising a loosely pivoted disk having a series of graduated concentric slots therein and means carried by said selective mechanism for actuating said operating means to an extent dependent upon the coin delivered to said coin carrier.

17. In a device of the character described, the combination with a supporting frame comprising a pair of lateral arms, of differentially operative mechanism revolubly mounted between said arms, gearing for operating said differentially operative mechanism, a depressible coin carrier rotatably supported in one of said arms, selective mechanism adapted to be actuated to an extent dependent upon the denomination of the coin delivered to said coin carrier, and means carried by said selective mechanism for actuating said gearing to an extent dependent upon the denomination of the coin delivered to said coin carrier, said selective

mechanism comprising a loosely pivoted disk having a series of graduated concentric slots therein.

18. In a device of the character described, the combination with differentially operative mechanism, of gearing for operating the same, a depressible coin carrier adapted to receive coins of different denominations, selective mechanism whereby said gearing is actuated each time coins of certain denominations are delivered to the coin carrier, additional selective mechanism whereby said gearing is actuated only after a given number of coins of a predetermined denomination have been delivered to said coin carrier, and a pivotally mounted member movable with said coin carrier and having a projection adapted to operatively engage both of said selective mechanisms.

19. In a device of the character described, the combination with differentially operative mechanism, of gearing for operating the same, a depressible coin carrier adapted to receive coins of different denominations, a pivoted dog movable with said coin carrier, a slotted disk adapted to be actuated by said dog to an extent dependent upon the denomination of the coin delivered thereto, and a pawl pivotally carried by said disk and adapted to move said gearing to an extent determined by the denomination of the coin delivered to the carrier.

20. In a device of the character described, the combination with differentially operative mechanism, of a gear train for operating the same, a rotatably mounted depressible coin carrier adapted to receive coins of different denominations, a dog pivotally mounted adjacent said coin carrier and movable therewith, said dog being provided with a projecting toe, a slotted disk adjacent to said coin carrier, means for rotating said coin carrier to move the toe of said dog into one of the slots in said disk, and a pawl carried by said disk and movable upon rotation of said carrier to act against said gearing to an extent dependent upon the denomination of the coin delivered to the carrier.

21. In a device of the character described, the combination with differentially operative mechanism, of a gear train for operating the same, a depressible coin carrier adapted to receive coins of different denominations, selective mechanism for coins of certain denominations, said selective mechanism comprising a slotted disk, a pawl carried by said disk for actuating said gear train, a second selective mechanism comprising a slotted disk, and means carried by said second disk for actuating said pawl after a given number of coins of a predetermined denomination have been delivered to said coin carrier.

22. In a device of the character described, the combination with differentially operative mechanism, of gearing for operating the same, a depressible coin carrier adapted to receive coins of different denominations, selective mechanism adapted to be actuated upon the delivering of coins to said coin carrier, said selective mechanism comprising a disk having a plurality of slots, a dog carried by said coin carrier and having a projecting toe adapted to selectively engage said slots, a second disk having an engaging surface adapted to be engaged by said toe, and a pawl carried by said first named disk and adapted to move said gearing to an extent dependent upon the denomination of the coin delivered to the coin carrier.

23. In a device of the character described, the combination with differentially operative mechanism, of gearing for operating the same, a depressible coin carrier, a pawl for actuating said gearing, selective mechanism comprising a disk adapted to be actuated upon each delivery of a coin of a predetermined denomination to said coin carrier, and a wheel carried by said disk and having a projection adapted to act against said pawl after the insertion of a given number only of the coins of said predetermined denomination.

In testimony whereof I have affixed my signature in presence of two witnesses.

EMANUEL RICHTER.

Witnesses:
OLE S. BENSON,
ARTHUR DORR.